

MA 242 LINEAR ALGEBRA C1, Solutions to Second Midterm Exam

Prof. Nikola Popovic, November 9, 2006, 09:30am - 10:50am

Problem 1 (15 points).

Let the matrix A be given by

$$\begin{bmatrix} 1 & -2 & -1 \\ -1 & 5 & 6 \\ 5 & -4 & 5 \end{bmatrix}.$$

- (a) Find the inverse A^{-1} of A , if it exists.
- (b) Based on your answer in (a), determine whether the columns of A span \mathbb{R}^3 . (Justify your answer!)

Solution.

(a) To check whether A is invertible, we row reduce the augmented matrix $[A \ I_3]$:

$$\begin{bmatrix} 1 & -2 & -1 & 1 & 0 & 0 \\ -1 & 5 & 6 & 0 & 1 & 0 \\ 5 & -4 & 5 & 0 & 0 & 1 \end{bmatrix} \sim \dots \sim \begin{bmatrix} 1 & -2 & -1 & 1 & 0 & 0 \\ 0 & 3 & 5 & 1 & 1 & 0 \\ 0 & 0 & 0 & -7 & -2 & 1 \end{bmatrix}.$$

Since the last row in the echelon form of A contains only zeros, A is not row equivalent to I_3 . Hence, A is not invertible, and A^{-1} does not exist.

(b) Since A is not invertible by (a), the Invertible Matrix Theorem says that the columns of A cannot span \mathbb{R}^3 .

Problem 2 (15 points).

Let the vectors $\mathbf{b}_1, \dots, \mathbf{b}_4$ be defined by

$$\mathbf{b}_1 = \begin{pmatrix} 3 \\ 5 \\ -2 \\ -4 \end{pmatrix}, \quad \mathbf{b}_2 = \begin{pmatrix} 2 \\ -1 \\ -5 \\ 7 \end{pmatrix}, \quad \mathbf{b}_3 = \begin{pmatrix} -1 \\ 1 \\ 3 \\ 0 \end{pmatrix}, \quad \text{and} \quad \mathbf{b}_4 = \begin{pmatrix} 0 \\ 0 \\ 0 \\ -3 \end{pmatrix}.$$

- (a) Determine if the set $\mathcal{B} = \{\mathbf{b}_1, \mathbf{b}_2, \mathbf{b}_3, \mathbf{b}_4\}$ is linearly independent by computing the determinant of the matrix $B = [\mathbf{b}_1 \ \mathbf{b}_2 \ \mathbf{b}_3 \ \mathbf{b}_4]$.
- (b) Using your answer in (a), determine if \mathcal{B} is a basis for \mathbb{R}^4 . (Justify your answer!)

Linear Algebra Midterm Exam Solutions

Marco Casella



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United States Air Force Academy United States Air Force Academy, 1984 *Maple in Mathematics Education and Research* Jürgen Gerhard, Ilias Kotsireas, 2020-02-27 This book constitutes the refereed proceedings of the third Maple Conference MC 2019 held in Waterloo Ontario Canada in October 2019 The 21 revised full papers and 9 short papers were carefully reviewed and selected out of 37 submissions one invited paper is also presented in the volume The papers included in this book cover topics in education algorithms and applications of the mathematical software Maple **Annual Catalog - United States Air Force Academy** United States Air Force Academy, 1971 *Annual Catalogue* United States Air Force Academy, 1984 **Student Solutions Manual for College Algebra** R. David Gustafson, Frisk, Peter D Frisk, 1994 Emphasizing the usefulness of mathematics this thorough extensive revision offers a direct easy to comprehend treatment of college algebra The revision was motivated by the need to better prepare students for the mathematics of the next century The authors direct approach is sound yet not so rigorous that it will discourage students The highly applied approach features many story problems and real life applications The Gustafson and Frisk style remains easy to teach from easy to learn from because of the book's streamlined development of topics the correct amount of material in each section and its no nonsense straightforward approach *The Immortal Woman* Su Chang, 2025-03-04 Longlisted 2025 Toronto Book Awards A CBC Best Book of 2025 A sweeping generational story of heartbreak resilience and yearning revealing an insider's view of the fractured lives of Chinese immigrants and those they leave behind Lemei once a student Red Guard leader in 1960s Shanghai and a journalist at a state newspaper was involved in a brutal act of violence during the Tiananmen Square protests and lost all hope for her country Her daughter Lin is a student at an American university on a mission to become a true Westerner She tirelessly erases her birth identity abandons her Chinese suitor and pursues a white lover all the while haunted by the scars of her upbringing Following China's meteoric rise Lemei is slowly dragged into a nationalistic perspective that stuns Lin Their final confrontation results in tragic consequences but ultimately offers hope for a better future By turns wry and lyrical *The Immortal Woman* reminds us to hold tight to our humanity at any cost **MAA Notes**, 1983 **Using Writing to Teach Mathematics** Andrew Sterrett, 1990 This collection of essays is an outgrowth of the widespread interest shown in sessions of contributed papers on writing given at the 1988 and 1989 Annual Meetings of the MAA Many of the 30 authors of the essays included in this volume participated in those sessions and each has considerable experience in requiring students to write about mathematics Introductory Algebra Alan Wise, 1986 **McGraw-Hill's 500 College Linear Algebra Questions to Know by Test Day** Seymour Lipschutz, 2012-09-28 500 Ways to Achieve Your Best Grades We want you to succeed on your college linear algebra midterm and final exams That's why we've selected these 500 questions to help you study more effectively use your preparation time wisely and get your best grades These questions and answers are similar to the ones you'll find on a typical college exam so you will know what to expect on test day Each

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